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Computer & Control Abstracts

Science Abstracts Series C
July–December 1984

Subject Index

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SIX-MONTHLY INDEXES TO COMPUTER & CONTROL ABSTRACTS

Twice a year as part of their subscription to Computer & Control Abstracts subscribers receive cumulative indexes for the periods January-June and July-December. Each index is in two parts—a Subject Index, and an Author Index which comprises personal and corporate author indexes, and indexes to conferences, book titles, and bibliographies. The List of Journals and other Serial Sources abstracted by INSPEC in the particular year is also included with the July-December issue of the Author Index while the supplement to that List is included with the January-June issue. Cumulative indexes for earlier years are also available: for details please see the inside back cover.

Subject index

The Subject index provides an alphabetical subject key to the articles included in the abstracts journal. Some general guidance on its use is given below:

1. Look in the index for the name of the specific subject in which you are interested. In most cases this name will be a heading in the index and you will find relevant articles listed under it. The majority of the subject headings fall into the following categories: property, phenomena, substance or named objects, instrument, device, theory, method, process, application, event.
2. Occasionally you will be directed from the subject heading chosen to a different heading under which the relevant or additional articles are listed.
3. If you do not find the subject heading you first chose, try a more general heading.
4. Each entry under the heading relates to an article appearing in the abstracts journal and gives the serial number of that article in the journal preceded by the last digit of the current year, e.g. 4-12345; i.e. Abstract number 12345 in the abstracts journal for 1984.

The language of the article, if it is not in English, is also indicated. e.g. Logic programming language PROLOG and its application to AI (Japanese) 4-17880.

Each entry starts with a Keyword or Keyphrase considered to be most relevant to the heading. On sorting these Keywords, the qualifying prefixes are usually ignored. (e.g. α-brass, 5-sulphosalicylic, 31 Cygni, n-Ge are sorted under brass, sulphosalicylic, Cygni, Ge respectively).

There are three main Keyword lists: alphabetical A-Z, elementary particles, and chemical symbols (organic substances are written and not given as chemical formula). More than one Keyword list may be present under each subject heading.

For document on, say, 'photoemission of germanium' at least two access points 'photoemission' and 'germanium' are provided. Under the heading 'photoemission' the Keyword will be 'Ge' and under 'germanium' the Keyword will be 'photoemission'.

In a case like this, it is advisable and quicker to use the heading 'photoemission' and go straight to the chemical symbol list for 'Ge'.

Intermetallic compounds are indexed under the appropriate alloy headings. The chemical formula is used as Keyword. However, it is important to realise in searching the chemical symbol list that, at present, alloys and intermetallic compounds are sorted separately. For example FeCo is sorted at the end of the Fe- list e.g. Fe-Al,... Fe-Co,... Fe-Si,... Fe-Si-B,... FeCo,... FeSi and so on in this order.

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Computer & Control Abstracts

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Subject Index

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Abbreviations and Acronyms

Abbreviations and acronyms are used in the modifiers in all INSPEC Cumulative Subject Indexes. Individual terms should be readily understood in the context of the subject heading.

ABS resin	acrylonitrile-butadiene-styrene
AC	alternating current
ACV	air cushion vehicle
A/D	analogue-to-digital
ADC	analogue digital conversion
ADP	administrative data processing
AF	audio frequency
AFC	automatic frequency control
AFL	abstract family of languages
AGC	automatic gain control
ALU	arithmetic logic unit
AM	amplitude modulation
ARMA	autoregressive moving average
ASCII	American standard code for information interchange
ASK	amplitude shift keying
ATC	air traffic control
ATE	automatic test equipment
ATM	automatic teller machine
AVC	automatic volume control
BCD	binary-code decimal
BER	bit error rate
BWR	boiling water reactor
CAD	computer aided design
CAE	computer aided engineering
CAI	computer assisted instruction
CAM	computer aided manufacturing
CATV	community antenna TV
CB	citizen band
CBI	computer based instruction
CCD	charge-coupled device
CDM	code division multiplexing
CERN	Conseil Europeen pour la Recherche Nucleaire
CFSK	coherent frequency shift keying
CMI	computer managed instruction
CNC	computer numerical control
COM	computer output to microform (fiche or film)
CPA	critical path analysis
CPM	critical path method
CPU	central processing unit
CRO	cathode ray oscilloscope
CRT	cathode ray tube
CW	continuous wave
D/A	digital-to-analogue
DAC	digital analogue conversion
DBMS	database management system
DC	direct current
DDC	direct digital control
DDL	diode-diode logic
DFT	direct Fourier transform
DIP	dual in-line package
DM	delta modulation
DMA	direct memory access
DMM	digital multimeter
DOS	disc operating system
DP	data processing
DSS	decision support system
DVM	digital voltmeter
EAROM	electrically alterable ROM
EAX	electronic automatic exchange
ECG	electrocardiography (-gram)
EDP	electronic data processing
EEG	electroencephalography (-gram)
EEPROM E^2PROM	electrically erasable PROM
EFT	electronic funds transfer
EHV	extra high voltage
ELF	extremely low frequency
EM	electromagnetic
EMC	electromagnetic compatibility
EMF	electromotive force
EMG	electromyography (-gram)
EOF	end of file
EPROM	erasable prom
ESS	electronic switching system
FAMOS	floating gate avalanche MOS
FDM	frequency division multiplex(ing)
FDMA	frequency division multiple access
FET	field effect transistor
FFT	fast Fourier transform
FM	frequency modulation
FPLA	field programmable logic array
FSK	frequency-shift keying
GAMBIT	gate modulated bipolar transistor
GTO	gate turn-off
HF	high frequency
HV	high voltage
IC	integrated circuit
IF	intermediate frequency
I^2L	integrated injection logic
I^3L	isoplanar I^2L
ILS	instrument landing system
IMPATT	impact avalanche transit time
INTELSAT	international telecommunications satellite consortium
I/O	input/output
IPSS	international packet switching service
IR	infrared
IRS	information retrieval system
ISDN	integrated services digital network
LAN	local area network
LC	inductance-capacitance
LCD	liquid crystal display/device
LED	light emitting diode
LF	low frequency
LV	low voltage
MESFET	metal-semiconductor field effect transistor
MF	medium frequency
MHD	magnetohydrodynamics
MIMD	multiple input multiple data
MIS	metal-insulator-semiconductor or management information system
MIT	Massachusetts Institute of Technology
MNOS	metal-nitrode-oxide-semiconductor
MOS	metal-oxide-semiconductor
MOSFET	metal-oxide-semiconductor field effect transistor
MOST	metal-oxide-semiconductor transistor
MS	management science

MSI	medium scale integration
MTBF	mean-time between failures
NAND	not-and(logic)
NC	numerical control
NDT	nondestructive testing
NHS	National Health Service
NOR	not-or(logic)
OCR	optical character recognition
OEM	original equipment manufacture
OR	operations research
OS	operating system
PABX	private automatic branch exchange
PBT	permeable base transistor
PBX	private branch exchange
PC	printed circuit
PCB	printed circuit board
PCM	pulse code modulation
PF	power factor
PFM	pulse frequency modulation
PID(PI,PD)	proportional+integral+differential (derivative)
PLA	phase locked array or programmable logic array
PLC	programmable logic control
PLL	phase locked loop
PM	pulse modulation
POS	point of sale
PROM	programmable read-only-memory
PSK	phase shift keying
PTFE	polytetrafluoroethylene
PTM	pulse time modulation
PVC	polyvinyl chloride
RAM	random access memory
RC	resistance-capacitance
R & D	research and development
RF	radio frequency
RFI	radio frequency interference
RLC	resistance-inductance-capacitance
RMS	root-mean-square
ROM	read-only memory
RPM	revolutions/minute
SCR	silicon controlled rectifier
SDM	space division multiplexing
SIMD	single input multiple data
S/N	signal-to-noise
SOS	silicon on sapphire
SPC	stored program control
SSB	single sideband
SST	supersonic transport
STD	subscriber trunk dialling
STOL	short take-off and landing
SW	short wave
SWR	standing wave ratio
TASI	time assignment speech interpolation
TDM	time division multiplex(ing)
TDMA	time division multiple access
TTL	transistor transistor logic
TV	television
UART	universal asynchronous receiver transmitter
UHF	ultra high frequency
UHV	ultra high voltage
UKAEA	United Kingdom Atomic Energy Authority
ULA	uncommitted logic array
ULF	ultra low frequency
US	ultrasonic
UV	ultraviolet
VCR	video cassette recorder
VDU	visual display unit
VHF	very high frequency
VHSIC	very high speed integrated circuit
VLF	very low frequency
VLSI	very large scale integration
VS	virtual storage
VTOL	vertical take-off and landing
VTR	voltage transformation ratio or video tape recorder
WDM	wavelength division multiplexing
WP	word processing

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DTL *see diode-transistor logic*

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ESCA *see electron spectroscopy; spectrochemical analysis*

ESR *see paramagnetic resonance*

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parameter identification *see parameter estimation*

parametric amplifiers
see also microwave parametric amplifiers; optical parametric amplifiers
No entries

parametric devices
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